

Remarks

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1-28 are pending in the application, with 1, 6, 12, 19, 23, and 26 being the independent claims. Claims 1, 6, 20, and 28 are sought to be amended to correct minor typographical errors. These changes introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 102

In paragraph 2 of the Office Action, the Examiner rejected various claims under 35 U.S.C. § 102 as being anticipated by U.S. Patent No. 5,483,695 to Pardoen (hereafter Pardoen). Applicants respectfully traverse this rejection.

In paragraph 2, the Examiner argues that Pardoen teaches the steps of (1) aliasing the FM signal at an aliasing rate, said aliasing rate being determined by the frequency of the FM signal; (2) adjusting said aliasing rate to compensate for frequency changes of the FM signal; and (3) outputting, responsive to steps (1) and (2), a demodulated baseband information signal, as recited in independent claim 1 of the present application. This argument, however, is contrary to the actual disclosure of Pardoen. Pardoen teaches away from the claimed invention.

The Examiner cites column 4, lines 57-68 and column 5, lines 1-12 of Pardoen for allegedly teaching the recited steps of claim 1. But, at column 4, lines 57-68, for example, Pardoen is describing how to increase the sampling rate so as to produce "an oversampled" version of the signal from mixer 25 thereby avoiding aliasing. In fact, the problem addressed by Pardoen, according to Pardoen, is how to avoid aliasing and aliasing distortion. See, e.g., column 2, lines 35-45 in the "Background of the Invention," section of Pardoen. Pardoen thus teaches away from the steps of "(1) aliasing the FM signal at an aliasing rate,

said aliasing rate being determined by the frequency of the FM signal; (2) adjusting said aliasing rate to compensate for frequency changes of the FM signal; and (3) outputting, responsive to steps (1) and (2), a demodulated baseband information signal," as recited in independent claim 1 of the present application. Nothing in Pardoen discloses or suggest using aliasing to down-convert an FM signal.

For at least the above reason, independent claim 1 is patentable over Pardoen. Independent claims 6, 12, 19, 23, and 26 also recite features of using aliasing or aliasing modules to down-convert signals. These recited features are neither disclosed nor suggested by Pardoen, and in fact Pardoen teaches away from these recited features. Thus, independent claims 6, 12, 19, 23, and 26 are patentable over Pardoen.

Claims 2-5, 7-11, 13-18, 20-22, 24, 25, 27, and 28 each depend, either directly or indirectly, from one of independent claims 1, 6, 12, 19, 23, and 26 and are patentable over Pardoen for at least the same reasons that independent claims 1, 6, 12, 19, 23, and 26 are patentable over Pardoen.

Reconsideration and withdrawal of this rejection are respectfully requested.

Rejections under 35 U.S.C. § 103

In paragraph 4 of the Office Action, the Examiner rejected various claims under 35 U.S.C. § 103 as being unpatentable over Pardoen. Applicants respectfully traverse this rejection.

As noted above, Pardoen teaches away from using aliasing to down-convert a signal. Pending claims 1-28 of the present application recite features relating to the use of aliasing and aliasing modules to down-convert a signal. Thus, claims 1-28 are patentable over Pardoen.

Reconsideration and withdrawal of this rejection are respectfully requested.

In paragraph 5 of the Office Action, the Examiner rejected claims 7 and 8 under 35 U.S.C. § 103 as being unpatentable over Pardoen in view of U.S. Patent No. 5,600,680 to Mishima *et al.* (hereafter Mishima). Applicants respectfully traverse this rejection.

As noted above, Pardoen teaches away from using aliasing to down-convert a signal. Pending claims 1-28 of the present application recite features relating to the use of aliasing and aliasing modules to down-convert a signal. Mishima does not overcome the deficiencies of Pardoen. Thus, claims 1-28 are patentable over Pardoen in view of Mishima.

Reconsideration and withdrawal of this rejection are respectfully requested.

Other Matters

Claims 1, 6, 20, and 28 are sought to be amended to correct minor typographical errors. These changes introduce no new matter, and their entry is respectfully requested.

Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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